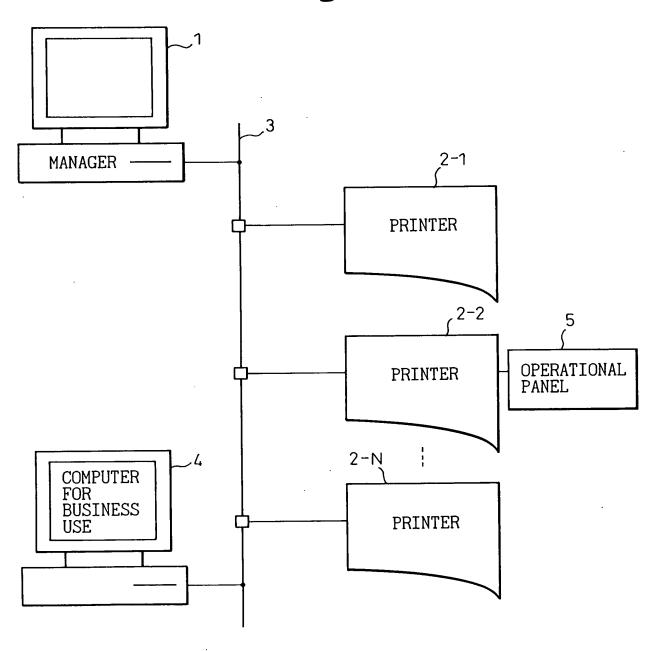
2



Fig.1



<u>;</u> :

Fig.2

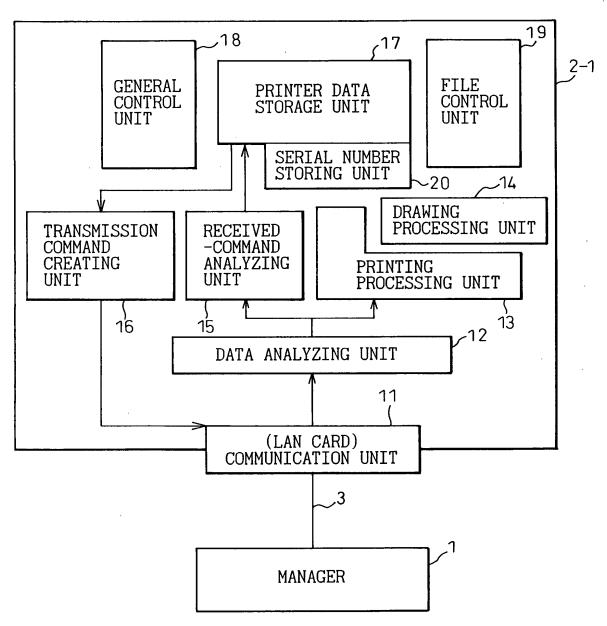


Fig.3

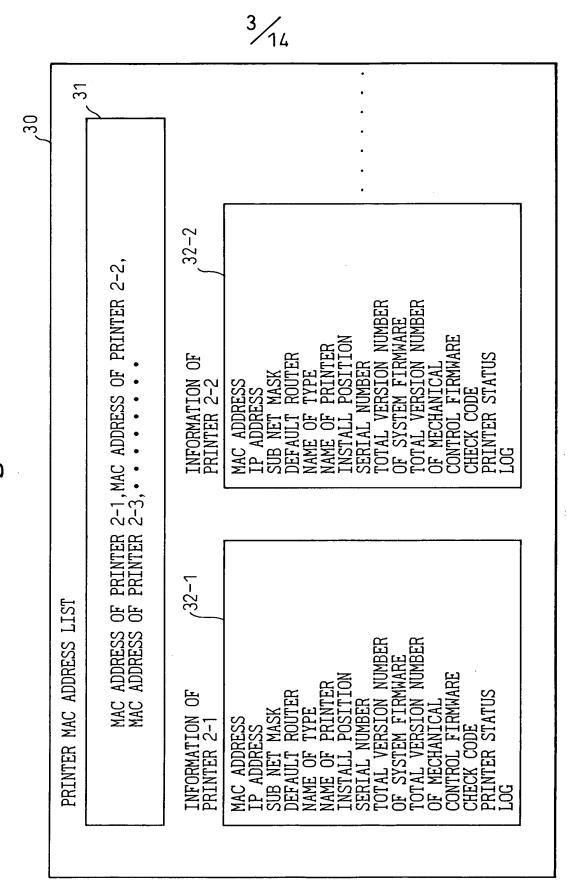
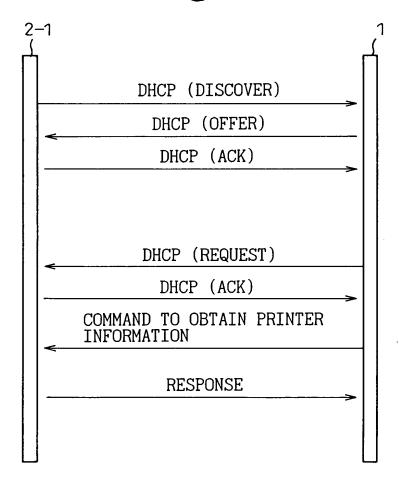


Fig.4



# <sup>5</sup>/<sub>14</sub> Fig.5

$FILE(\underline{F})$ EDIT	(E) DISPLAY( $V$ ) MOVE( $G$ ) FAVORITE( $A$ ) HELP( $H$	)	
OPERATION (TEST	RETURN TO OPERATING CONDITION LIST  VSP4601   172.22.28.232	HELP	
SETTING DELETION HISTORY LIST	MAC ADDRESS IP ADDRESS SUB NET MASK DEFAULT GATEWAY IP ADDRESS OF MANAGEMENT SOURCE RS GROUP NAME PRINTER NAME TYPE NAME SERIAL NUMBER INSTALL POSITION REMARKS UNIT VERSION NUMBER TOTAL VERSION NUMBER OF MECHANICAL CONTROL PT TOTAL VERSION NUMBER OF MECHANICAL CONTROL FIRMWARE TOTAL VERSION NUMBER OF SYSTEM FIRMWARE CHECK CODE	: 00000E28F70C : 172 22 28 232 : 255 255 255 128 : 172 22 28 129 : 172 22 124 47 : DEFAULT  : PRINTER 1 : VSP4601 : 4 :	
□ INTRANET ZONE //.			

<sup>6</sup>/<sub>14</sub> Fig.6

START

A NORMAL PROCEDURE OF THE MANAGER FOR PRINTERS IS PERFORMED. THAT IS, THE SYSTEM PERIODICALLY OBTAINS INFORMATION OF EACH PRINTER UNDER MANAGEMENT. THE INFORMATION INCLUDES A MAC ADDRESS, A NAME OF TYPE, AN IP ADDRESS, A SERIAL NUMBER, ARTICLES OF CONSUMPTION AND THE LIKE, AND LOG DATA. THE PRINTER MANAGER 1 USES THE MAC ADDRESSES TO DISTINGUISH A PRINTER FROM OTHER PRINTERS BECAUSE THE MAC ADDRESSES ARE EASY TO USE AS MANAGEMENT INFORMATION IN NETWORKS.

THE SYSTEM RECOGNIZES THAT THE ELECTRIC POWER HAS BEEN SUPPLIED TO THE PRINTER 2-1 FROM THE DHCP PROTOCOL

A MAC ADDRESS WRITTEN IN A DHCP (INFORMATION) RECEIVED FROM THE PRINTER 2-1 IS RETRIEVED FROM ADDRESSES STORED IN A FILE IN THE MAC ADDRESS LIST STORING PART 31 IN THE MANAGER. CAN ANY MAC ADDRESS BE FOUND ?

N

THE SYSTEM RECOGNIZES THAT THE MAC ADDRESS IS FOR A NEW PRINTER AND CREATES A NEW FILE FOR THE PRINTER IN THE MANAGER 1

THE SYSTEM OBTAINS MANAGEMENT INFORMATION SUCH AS THE NAME OF TYPE, THE IP ADDRESS, THE SERIAL NUMBER, ARTICLES OF CONSUMPTION AND THE LIKE, AND LOG DATA OF THE PRINTER 2-1

THE OBTAINED DATA IN STEP 5 IS STORED IN THE FILE CREATED IN STEP 4

56

-51

-S2

-S3

-S4

-55

Fig.7

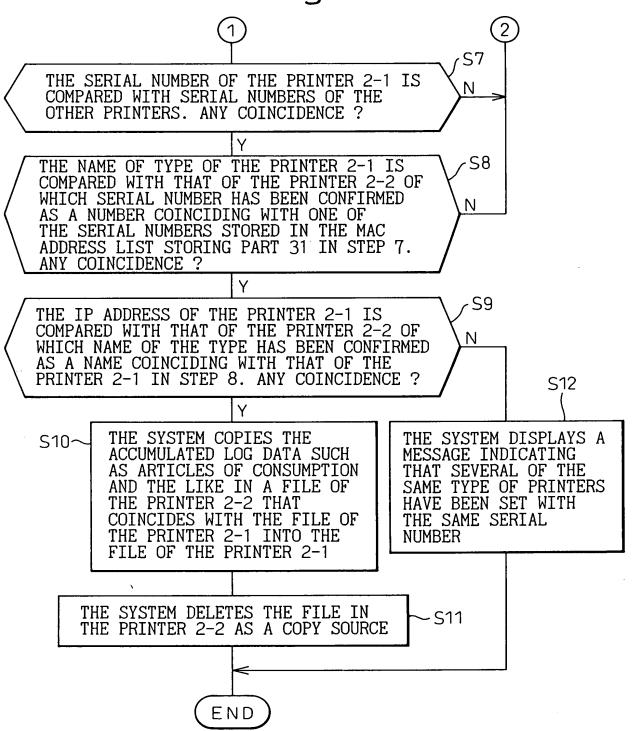


Fig.8

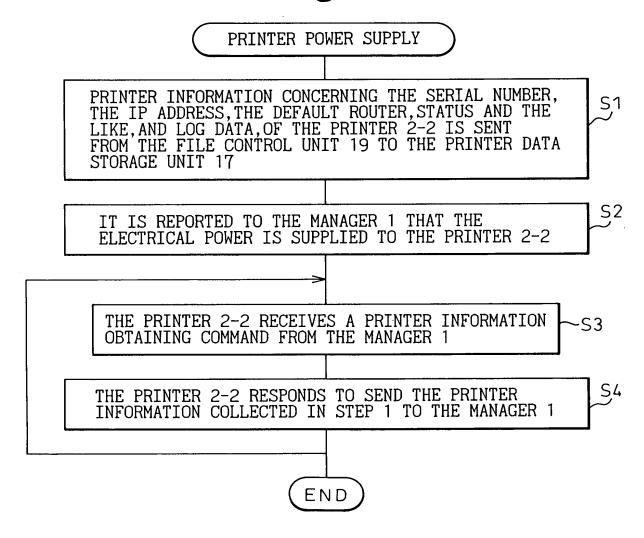
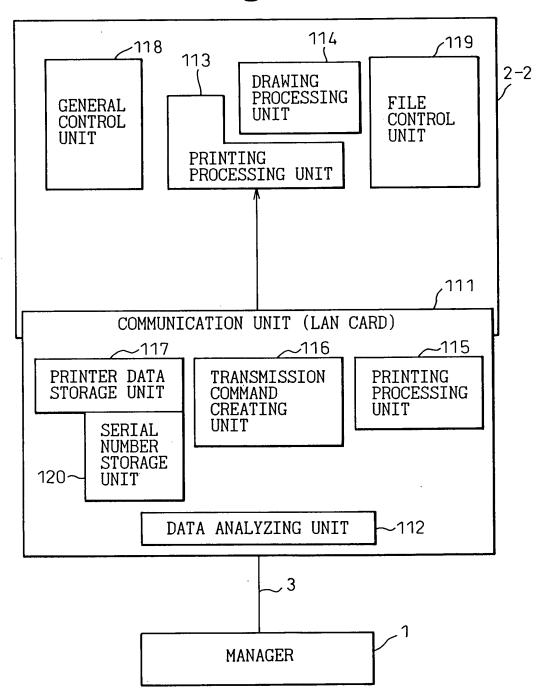


Fig.9



#### Fig.10

START

A NORMAL PROCEDURE OF THE MANAGER FOR PRINTERS IS PERFORMED. THAT IS, THE SYSTEM PERIODICALLY OBTAINS INFORMATION OF EACH PRINTER UNDER MANAGEMENT. THE INFORMATION INCLUDES A MAC ADDRESS, A NAME OF TYPE, AN IP ADDRESS, A SERIAL NUMBER, ARTICLES OF CONSUMPTION AND THE LIKE, AND LOG DATA. THE PRINTER MANAGER 1 USES THE MAC ADDRESSES TO DISTINGUISH A PRINTER FROM OTHER PRINTERS BECAUSE THE MAC ADDRESSES ARE EASY TO USE AS MANAGEMENT INFORMATION IN NETWORKS.

THE SYSTEM RECOGNIZES THAT THE ELECTRIC POWER HAS BEEN SUPPLIED TO THE PRINTER 2-1 FROM THE DHCP PROTOCOL

A MAC ADDRESS WRITTEN IN A DHCP (INFORMATION) RECEIVED FROM THE PRINTER 2-1 IS RETRIEVED FROM ADDRESSES STORED IN A FILE IN THE MAC ADDRESS LIST STORING PART 31 IN THE MANAGER. CAN ANY MAC ADDRESS BE FOUND?

N

THE SYSTEM RECOGNIZES THAT THE MAC ADDRESS IS FOR A NEW PRINTER AND CREATES A NEW FILE FOR THE PRINTER IN THE MANAGER 1

THE SYSTEM OBTAINS MANAGEMENT INFORMATION SUCH AS THE NAME OF TYPE, THE IP ADDRESS, ARTICLES OF CONSUMPTION AND THE LIKE, AND LOG DATA OF THE PRINTER 2-1

THE OBTAINED DATA IN STEP 5 IS STORED IN THE FILE CREATED IN STEP 4

S 6

-S1

-S2

S 3

Υ

·S4

-S5

2

### Fig.11

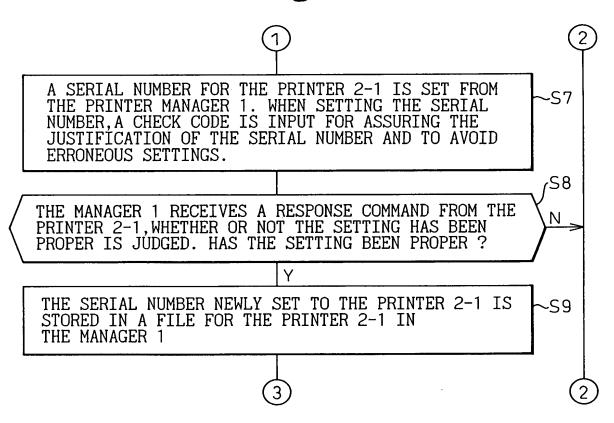
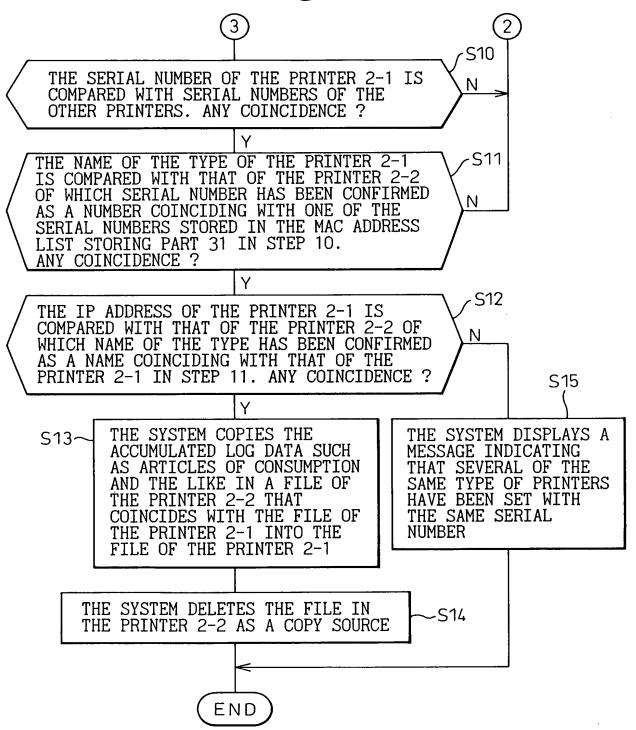


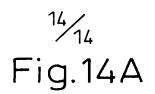
Fig.12



## 13/<sub>1/</sub> Fig.13

#### PRINTER POWER SUPPLY PRINTER INFORMATION CONCERNING THE IP ADDRESS, THE DEFAULT ROUTER, STATUS AND THE LIKE, AND LOG DATA, OF THE PRINTER 2-2 IS SENT FROM THE FILE CONTROL UNIT 19 -S1 TO THE PRINTER DATA STORAGE UNIT 17 IT IS REPORTED TO THE MANAGER 1 THAT THE ELECTRICAL POWER IS SUPPLIED TO THE -S2 PRINTER 2-2 -S3 THE PRINTER 2-2 RECEIVES A PRINTER INFORMATION OBTAINING COMMAND FROM THE MANAGER 1 THE PRINTER 2-2 RESPONDS TO SEND THE -S4 PRINTER INFORMATION COLLECTED IN STEP 1 TO THE MANAGER 1 THE PRINTER 2-2 RECEIVES A COMMAND SIGNAL FOR SETTING A SERIAL NUMBER FROM THE MANAGER 1 **S6** THE SERIAL NUMBER IS WRITTEN IN THE PRINTER DATA STORAGE UNIT 117, AND IS Ν CHECKED TO DETERMINE WHETHER OR NOT THE WRITING HAS BEEN SUCCESSFUL. **S8** HAS THE WRITING BEEN SUCCESSFUL ? THE PRINTER 2-2 RESPONDS S7-THE PRINTER 2-2 RESPONDS TO THE SERIAL NUMBER SETTING COMMAND RECEIVED TO THE SERIAL NUMBER SETTING COMMAND RECEIVED FROM THE MANAGER 1 TO INDICATE THAT THE FROM THE MANAGER 1 TO INDICATE THAT THE WRITING HAS BEEN WRITING HAS BEEN FAILED SUCCESSFUL

END



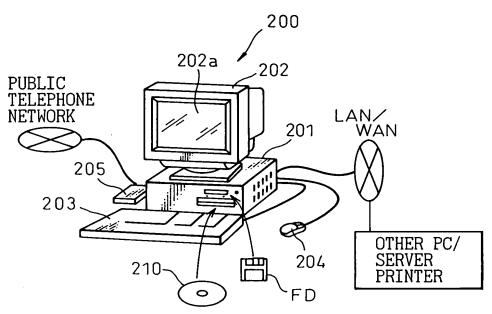


Fig. 14B

